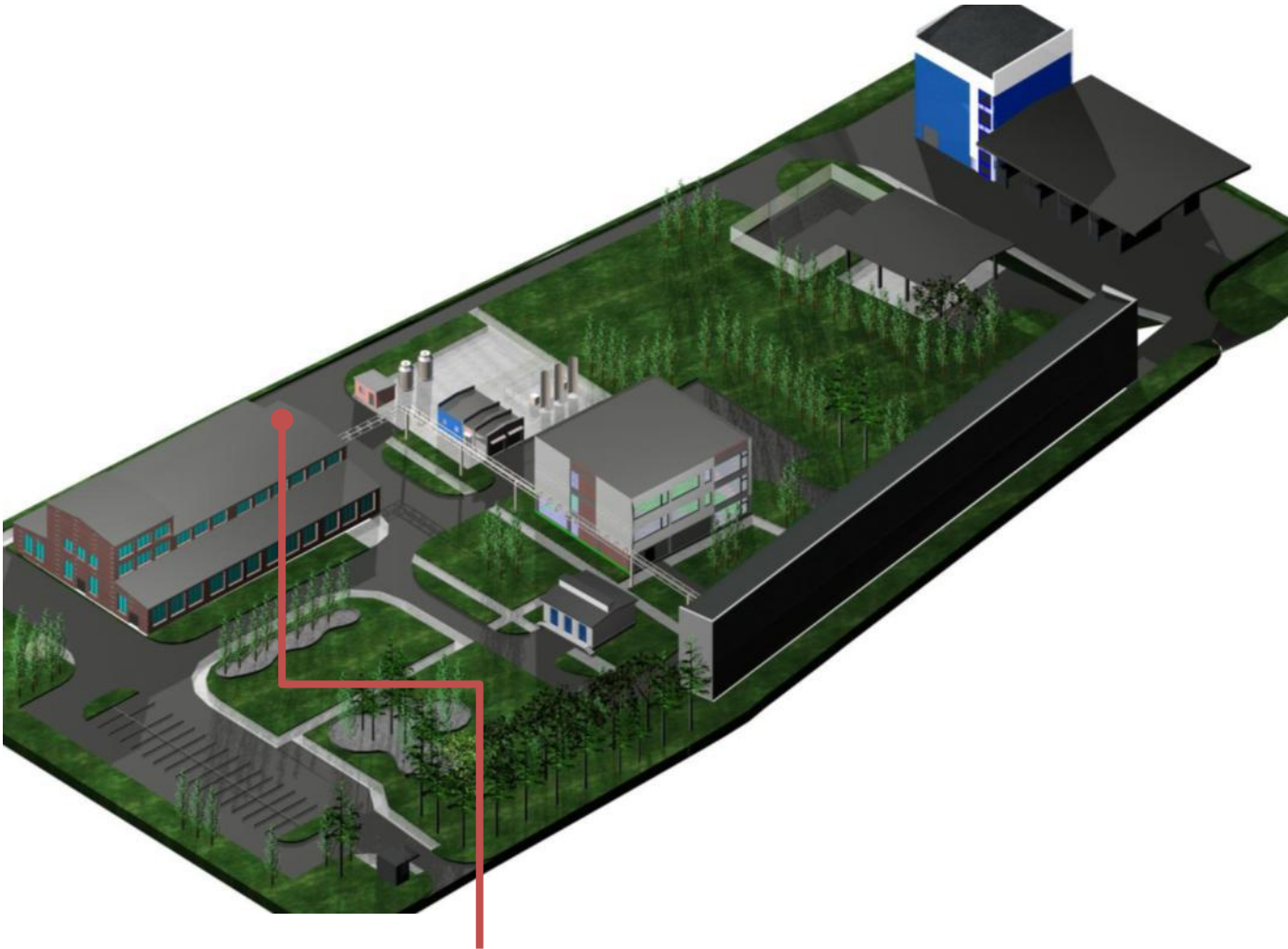


CLEAN COAL TECHNOLOGY CENTRE

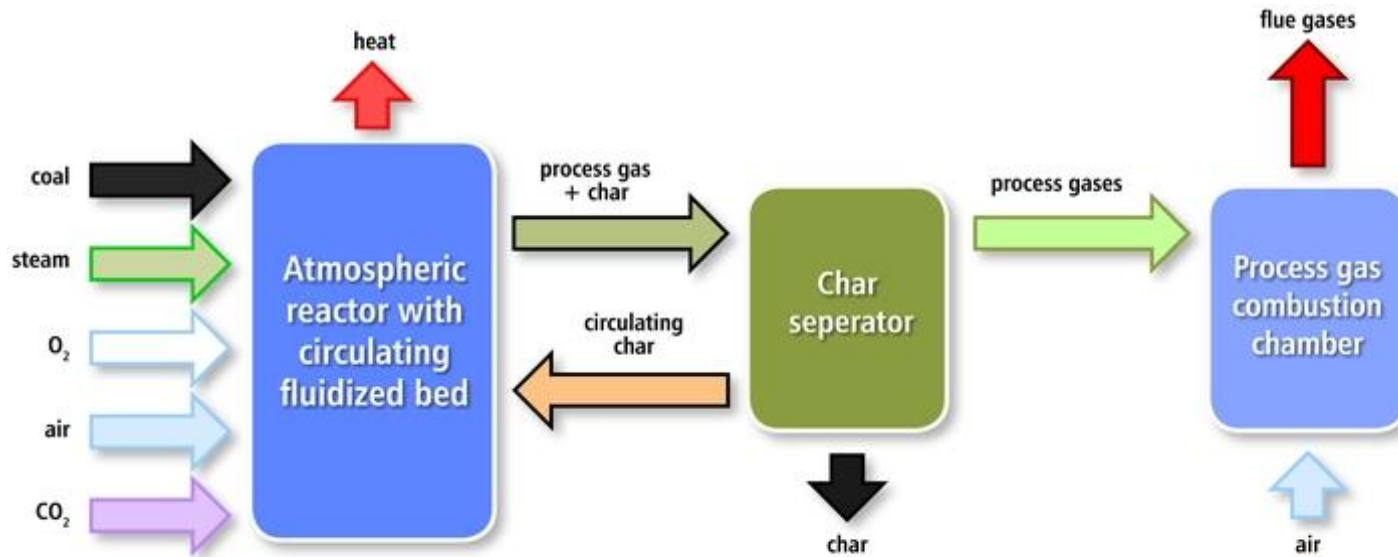


Testing plant for solid fuels pyrolysis/gasification

Testing plant for solid fuels pyrolysis/gasification

The plant is designed to investigate solid fuels gasification process targeted to receive two major products: process gas and char.

The plant is equipped with circulating fluidized bed reactor, raw material dosing system, system of separating char from hot process gas and process gas combustion system. As the gasifying agents can be used: air, steam, carbon dioxide and their mixtures.



Technical characteristics

Input fuel flowrate	100 kg/h
Flowrate of the gasifying agent	150 - 250 Nm ³ /h
Flowrate of the process gas	300 - 400 Nm ³ /h
Flowrate of the carbonizate	30 - 50 kg/h
Working pressure	atmospheric pressure
Gasification temperature	800 - 1000°C
Control system	automatic

Testing plant for solid fuels pyrolysis/gasification

RESEARCH AREA

- Research on coal gasification for the effective production of the synthesis gas and electricity.
- Research on co-gasification of coal and biomass.
- Research on solid fuels gasification with use of various gasifying agents.

SUBJECT OF COMMERCIALIZATION

- Pressureless gasification of the solid fuels in a circulating fluidized bed reactor.
- Bituminous coal and biomass co- gasification.



POTENTIAL RECIPIENTS OF THE RESEARCH RESULTS

- Enterprises and institutions operating in power sector.
- Enterprises and institutions operating in chemical processing sector.



INSTYTUT CHEMICZNEJ PRZERÓBKİ WĘGLA
(Institute For Chemical Processing Of Coal)
Zamkowa St. 1; 41-803 Zabrze, Poland

Phone: **+48 32 271 00 41**
Fax: **+48 32 271 08 09**

E-mail: **office@ichpw.zabrze.pl**
Internet: **www.ichpw.zabrze.pl**

NIP: **648-000-87-65**
Regon: **000025945**

